```
GenCore version 5.1.3 Copyright (c) 1993 - 2003 Pempuyen 114
```

OM protein - nucleic search, using frame_plus_p2n mode!

January 16, 2003, 16:59:22 ; Search time 48 Seconds Pur or:

(without alignments) 89 447 Million cell updates/sec

US-09-856-970-17 69 Title: Perfect score:

1 EREKEÇMMKEREEL 14 Sednence:

PLOSUM62 Scoring table:

Xgapop 10.0 , Xgapeat Ygapop 10.0 , Ygapext Fgapop 6.0 , Fgapext Delop 6.0 , relext

441362 seqs, 153338381 residues

Searched:

Total number of hits satisfying thesen parameters

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Listing first 45 summaries Post-processing: Minimum Match 0% Maximum Match 100%

Command line parameters.

MODEL-trame+_pan_model__PEV-xlp

MODEL-trame+_pan_model__PEV-xlp

WODEL-trame+_pan_model__PEV-xlp

C-/rone__laip=pan_model__PEV-xlp

C-/rone__laip=pan_model__PEV-xlp

DN-_lased__batents__NA - QFMI-fastap - SUFFIX-rni - MIRMATCH-0,i -LOOPCL-0

LOOPKYI-0 - UNITS_bits - STMF - 1 - FMIN-1 - MATPIX-biosum62 - FANS-binand 0.cdi

LIST-46 - DOCALIGN-200 - THR_SCORE-pri - THR_MAX=100 - THR_MIN-0 - ALIGN-15

WODEL-LOOAL - UNITS_bits - STMF - HEAPS IZE_500 - MINLEN - MAXILEN-ZOUGHDEN

WODEL-TROPERSCAPIA__STMT_BITS_I - THR_SCORE_FIXE_500 - MINLEN - MAXILEN-ZOUGHDEN

WORLDYY - NO_MMAP - LANGEUGH - NFT_SCORE_SE_0 - MAII - LANGES - DEV_INMENT - LOOPERSCAPIA__STMT_SCORE_SE_0 - MAII - LANGES - DEV_INMENT - DEV_IN

Issued_Patents_NA:* Database :

1: /cqu2_6/ptodata/2/ina/5A_toMB.seq.*
2: /cqu2_6/ptodata/2/ina/5B_toMB.seq.*
3: /cqu2_6/ptodata/2/ina/6A_toMB.seq.*
5: /cqu2_6/ptodata/2/ina/fA_foMB.seq.*
5: /cqu2_6/ptodata/2/ina/fClu3_cMM.seq.*
6: /cqu2_6/ptodata/2/ina/fClu3_cMM.seq.*

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution is the number of results predicted by chance to have a

SUMMARIES

00 00 00 00 00 00 00 00 00 00 00 00 00			æ				
89216 1 US-09-078-294 3 Sequence 250 1 US-09-078-294 3 Sequence 250 3 US-08-929-208-16 Sequence 250 4 US-09-978-294 3 Sequence 250 4 US-09-568-315-16 Sequence 250 4 US-09-568-315-16 Sequence 250 4 US-09-568-315-16 Sequence 250 4 US-09-568-315-16 Sequence 250 4 US-09-868-315-16 Sequence 251 1 US-08-800-644-93 Sequence 251 2 US-08-800-644-93 Sequence 251 2 US-08-529-8788-37 Sequence 251 2 US-08-	Result.	Score	Query Match	Length	53	<u> </u>	Description
89595 4 13:09:078:294 3 Sequence 2381 2 IS:09:078:294 3 Sequence 2381 2 IS:08-73-770-4 Sequence 250 3 US:08-929-208-16 Sequence 250 4 US:09-568-315-16 Sequence 649 4 US:09-568-315-16 Sequence 649 4 US:09-385-482 309 Sequence 251 1 III:0-68-655-200-94 Sequence 651 2 US:08-800-644-93 Sequence 251 4 III:0-8-656-200-94 Sequence 251 2 US:08-529-8788-37 Sequence 251 4 III:0-8-659-8788-37 Sequence 251 2 US:08-529-8788-37 Sequence 25	-	50	72.5	1	-	03-09-078-294-4	Sequence 4, Appli
2381 2 18:08-73-770-4 Sequence 250 1 03-08-480-252-16 Sequence 250 4 03-09-568-315-16 Sequence 250 4 03-09-568-315-16 Sequence 250 4 03-09-78-482 309 Sequence 27:1 11:3 08-29-38-482 309 Sequence 27:1 11:3 08-29-38-482 309 Sequence 25:1 2 03-08-529-878-37 Sequence 25:1 2 03-08-529-878-37 Sequence 25:1 3 03-08-529-878-37 Sequence	C4	C.	7.5		<#	28.09.078.294 3	Sequence 3. Appli
250 1 05-08-480-552-16 Sequence 250 3 05-08-929-108-16 Sequence 250 4 05-09-568-315-16 Sequence 649 4 05-09-568-315-16 Sequence 649 4 05-08-30-48-342-30-9 Sequence 2551 1 05-08-30-60-3 Sequence 651 2 05-08-30-644-93 Sequence 2542 4 05-08-259-48788-37 Sequence 2542 4 05-08-259-4878-37 Sequence 2545 4 0	*	46	66 7		٠.	115-08-736-770-4	Sequence 4, Appli
250 3 US-08-929-208-16 Sequence 250 4 US-09-568-315-16 Sequence 649 4 US-09-568-315-16 Sequence 649 4 US-08-568-300-94 Sequence 2203-1 IIIS-08-207-073-4 Sequence 9551 2 US-08-800-644-93 Sequence 651 2 US-08-529-9788-37 Sequence 2542 4 TS-08-529-9788-37 Sequence 2542 4 TS-08-529-9788-37	4	43	62.3		~1	US-08-480-552-16	Sequence 16, Appl
250 4 US-09-568-315-16 Sequence 649 4 US-09-388-2019 A Sequence 2203 1 III S 08 27-773-4 Sequence 9551 2 US-08-800-644-93 Sequence 5541 2 US-08-529-8788-37 Sequence 2541 4 US-08-529-8788-37 Sequence 2542 4 US-08-529-8788-37 Sequence 2542 4 US-08-529-8788-37 Sequence 2542 4 US-08-529-8788-37	цС	43	62.3		m	US-08-929-208-16	Sequence 16, Appl
649 4 US-09-385-982 309 Sequence 2223 1 IIS 08 257-77-4 Sequence 9551 1 IIS-08-056-200-93 Sequence 9551 2 US-08-800-644-93 Sequence 5542 4 IIS-08-529-8788-37 Sequence 2542 4 IIS-08-259-451-19	Ç	4.3	62.3		4	US-09-568-315-16	Sequence 16, Appl
2223 1 HS 08 257-673-4 Sequence 9551 1 HS-08-656-260-93 Sequence 9551 2 US-08-800-644-93 Sequence 661 2 US-08-529-8788-37 Sequence 2542 4 HS-08-259-451-19 Sequence	7	43	62.3		~	US-09-385-982 309	Sequence 309, App
9551 1 IIX-68-656-200-93 Sequence 9551 2 03-08-800-644-93 Sequence 661 2 03-08-529-8788-37 Sequence 2542 4 13-58-279-471-19 Sequence	Œ	~ •†	F.2 3		-	FIS 08 257-073-4	Sequence 4. Appli
9551 2 05-08-800-644-93 Sequence 661 2 05-08-529-8788-37 Sequence 2542 4 12 08 259-451-19 Sequence	6	43	62.3		-	HS-08-056-200-94	Sequence 93, April
661 2 08-529-8788-37 Sequence 2542 4 13 98 259-451-19 Sequence	10	43	62.3		~	US-08-800-644-93	Sequence 93, Appl
2542 4 73 98 259-451-19 Seduction		42	60.5		7	US-08-529-878B-37	Sequence 37, Appl
	C	Ç	5 O9		₹;	77 OR 259-451-19	Sectored 18, April

Db 57751 GAAAGASAAAGASCASAAA;TSASAGASAAASAS 57786

US 09 078 194-3 RESULT 2

13 42 60.5 3100 4 US 08 259 451 16
14 12 60.5 9957 4 05 09 255-451-1 15 41.5 60.1 4176 4 05 09-721-832-1 17 41.5 60.1 4176 4 05 09-722-1832-1 18 41.5 60.1 4176 4 05 09-721-832-1 19 41.5 60.1 4176 4 05 09-721-832-1 19 41.5 60.1 4176 4 05 09-324-645-1 19 41.5 59.4 4164 1 05 09-334-645-1 20 41 59.4 4164 1 05 09-334-645-1 21 41 59.4 4164 1 05 09-334-645-1 22 40 58.0 20.0 4 05 09-34-744 23 40 58.0 1286 4 05 09-176-3 24 40 58.0 1286 4 05 09-176-4 25 40 58.0 20.29 4 05 09-176-4 26 40 58.0 20.29 4 05 09-176-4 27 40 58.0 20.29 4 05 09-785-4 28 40 58.0 20.29 4 05 09-785-4 29 40 58.0 20.29 4 05 09-785-4 20 40 58.0 20.29 4 05 09-785-3 20 40 58.0 20.29 4 05 09-785-3 20 40 58.0 20.29 4 05 09-189-1 20 40 58.0 20.29 4 05 09-189-1 20 40 58.0 20.29 4 05 09-189-1 20 40 58.0 20.29 4 05 09-128-1 21 41 39 56.5 1408 2 05 09-184-4 22 44 39 56.5 1408 2 05 09-184-4 23 56.5 1408 2 05 09-184-4 24 39 56.5 1408 2 05 09-184-4 25 1447 3 3 3 3 3 3 3 27 28 28 29 3 3 3 28 29 20 30 30 30 30 29 20 30 30 30 30 20 20 30 30 30 30 20 20 30 30 30 20 20 30 30 30 20 30 30 30 30 20 30 30 30 30 20 30 30 30 20 30 30 30 20 30 30 30 20 30 30 30 20 30 30 20 30 30 20 30 30 20 30 30 20 30 30 20 30 30 20 30 30 20 30 30 20 30 30 30 30 30 30 30
14
14 12 60.9 9957 4 US 08 259-451-1 15 41.5 60.1 11464 4 US 08.259-451-1 17 41.5 60.1 4176 4 US-09-721-832-1 18 41.5 60.1 4176 4 US-09-721-832-1 19 41.5 60.1 4176 4 US-09-721-832-1 19 41.5 60.1 4176 4 US-09-721-832-1 20 41 59.4 4164 1 US-08-394-665-1 41 59.4 4164 1 US-08-394-665-1 21 41 69.4 4164 1 US-08-28-858-3 40 58.0 1286 4 US-09-149-476-83 40 58.0 1286 4 US-09-149-476-83 22 40 58.0 2229 4 US-09-149-476-83 40 58.0 2229 4 US-09-149-476-83 40 58.0 2229 4 US-09-149-476-83 40 58.0 2229 4 US-09-149-476-83 40 58.0 2229 4 US-09-16A-469 31 40 58.0 2229 4 US-09-28-60-98-85 40 58.0 3112-4 US-09-28-60-9 40 58.0 3112-4 US-09-38-15-17 40 58.0 152331 3 US-09-429-131-468 40 58.0 152331 3 US-09-128-15-1 41 39 56.5 1298 4 US-08-971-88-1 43 56.5 1497 2 US-08-820-170A-41
14 12 60.9 9957 4 US 08 259-451-1 15 41.5 60.1 11464 4 US 08 259-718-1 17 41.5 60.1 4176 4 US-09-721-832-1 18 41.5 60.1 4176 4 US-09-721-832-1 19 41.5 60.1 4176 4 US-09-721-832-1 19 41.5 60.1 4176 4 US-09-721-832-1 20 41.5 60.1 4176 4 US-09-721-832-1 21 41 59.4 4164 1 US-08-394-66-1 22 40 58.0 40 893 1 US 08 276-452A-66 23 40 58.0 1286 4 US-09-149-476-83 24 40 58.0 2229 4 US-09-149-476-83 25 40 58.0 2229 4 US-09-149-476-83 26 40 58.0 2229 4 US-09-149-476-83 27 40 58.0 2229 4 US-09-149-476-83 28 58 50 2229 4 US-09-149-476-83 29 68 0 2229 4 US-09-149-476-83 20 68 0 2229 4 US-09-388-469 20 68 0 2426 4 US-09-388-468 30 58 0 3112-4 US-09-439-313-468 31 40 58 0 3112-4 US-09-439-313-468 31 40 58 0 3112-4 US-09-605-786-690 31 58 0 3112-4 US-09-605-786-690 31 58 0 17633-3 US-09-128-155-17 31 56 58 0 17633-3 US-09-128-155-17 31 56 5 1 1298 4 US-08-51-089-1
14
14 12 60.9 8957 4 03 08 259.451-1 15 41.5 60.1 4176 4 03 08 259.781-1 17 41.5 60.1 4176 4 03-09-721-1832-1 18 41.5 60.1 4176 4 03-09-721-1832-1 19 41.5 60.1 4176 4 03-09-721-1832-1 19 41.5 60.1 4176 4 03-09-721-1832-1 20 41.5 60.1 4176 4 03-09-721-1832-1 21 41 59.4 4164 1 03-09-334-65-1 22 40 58.0 1226 4 03-09-149-476-1 23 40 58.0 1226 4 03-09-149-476-1 24 0 58.0 1229 4 03-09-149-476-1 25 40 58.0 2229 4 03-09-149-476-1 26 40 58.0 2229 4 03-09-149-476-1 27 40 58.0 2229 4 03-09-13-470-1 28 40 58.0 3112 4 03-09-605-785-408-1 31 40 58.0 3112 4 03-09-439-13-468-1 32 40 58.0 3112 4 03-09-439-13-468-1 33 40 58.0 3112 4 03-09-439-13-468-1 34 40 58.0 3112 4 03-09-439-13-468-1 36 40 58.0 3112 4 03-09-439-13-458-1 37 40 58.0 3112 4 03-09-439-13-458-1 38 40 58.0 3112 4 03-09-439-13-458-1 39 40 58.0 175333 3 03-09-128-155-17-1
14 12 60.9 9957 4 US 08 259-451-1 15 41.5 60.1 11464 4 US 08 259-718-1 17 41.5 60.1 4176 4 US-09-721-832-1 18 41.5 60.1 4176 4 US-09-721-832-1 19 41.5 60.1 4176 4 US-09-722-133-1 20 41.5 60.1 4176 4 US-09-722-133-1 21 41 59.4 4164 1 US-09-334-66-1 21 41 59.4 4164 1 US-09-858-88-3 23 40 58.0 1286 4 US-09-149-476-83 24 40 58.0 1286 4 US-09-149-476-83 25 40 58.0 2229 4 US-09-66-785-469 26 40 58.0 2229 4 US-09-149-476-93 27 40 58.0 2229 4 US-09-13-470 28 40 58.0 2229 4 US-09-13-470 29 40 58.0 2426 4 US-09-66-786-49 31 40 58.0 3112 4 US-09-439-13-408 34 40 58.0 3112 4 US-09-439-13-408 36 40 58.0 3112 4 US-09-66-786-90 37 40 58.0 3112 4 US-09-66-786-90 38 40 58.0 3112 4 US-09-66-786-90 39 40 58.0 3112 4 US-09-439-13-408 30 58.0 3112 4 US-09-66-786-90 31 58.0 3112 4 US-09-66-786-90
14 12 60.9 9957 4 08 08 259-451-1 15 41.5 60.1 11464 4 08 08 259-651-1 17 41.5 60.1 4176 4 08-09-721-832-1 18 41.5 60.1 4176 4 08-09-721-832-1 19 41 259-1 4176 4 08-09-721-832-1 20 41 59-4 4164 1 08-09-394-669-1 21 41 59-4 4164 1 08-09-394-669-1 22 40 58.0 1269 4 08-09-149-476-83 23 40 58.0 1286 4 08-09-149-476-83 24 58.0 1286 4 08-09-149-476-83 25 40 58.0 2229 4 08-09-18-476-83 26 40 58.0 2229 4 08-09-18-476-83 27 40 58.0 2229 4 08-09-18-476-83 28 58.0 2229 4 08-09-18-476-83 29 40 58.0 2229 4 08-09-48-9-313-476 40 58.0 2426 4 08-09-48-9-313-476-83 40 58.0 2426 4 08-09-48-9-313-468-31 40 58.0 3112 4 08-09-48-9-313-468-36-166-468-36-1
14 12 60.9 9957 4 US 08 259-451-1 15 41.5 60.1 11464 4 US 08 259-751-1 17 41.5 60.1 4176 4 US-09-721-1832-1 18 41.5 60.1 4176 4 US-09-721-1832-1 19 41.5 60.1 4176 4 US-09-721-1832-1 19 41.5 50.1 4176 4 US-09-394-665-1 21 41 59.4 4164 1 US-09-394-66-1 22 41 59.4 4164 1 US-09-858-88-3 23 40 58.0 1286 4 US-09-149-476-83 24 40 58.0 2229 4 US-09-149-476-83 25 40 58.0 2229 4 US-09-149-476-83 26 40 58.0 2229 4 US-09-149-476-83 27 40 58.0 2229 4 US-09-149-476-83 28 40 58.0 2229 4 US-09-66-470 31 40 58.0 2426 4 US-09-66-470 32 40 58.0 2426 4 US-09-66-470 33 40 58.0 2426 4 US-09-66-470 34 40 58.0 3112 4 US-09-66-475-46-8
14 12 60.9 9957 4 03 08 259.451-1 15 41.5 60.1 11464 4 07.28.51.846A-2 16 41.5 60.1 4176 4 08-09-722.1832-1 18 41.5 60.1 4176 4 08-09-721.832-1 19 41.5 60.1 4176 4 08-09-721.832-1 19 41.5 60.1 4176 4 08-09-721.832-1 20 41.5 60.1 4176 4 08-09-721.832-1 21 41 59.4 4164 1 08-09-89-88-88-88-88-88-88-88-88-88-88-88-88
14 12 60.5 8957 4 03.08 259-451-1 15 41.5 60.1 4176 4 05-09-721-80-1 17 41.5 60.1 4176 4 05-09-722-138-2-1 18 41.5 60.1 4176 4 05-09-722-138-2-1 19 41.5 60.1 4176 4 05-09-721-832-1 19 41.5 60.1 4176 4 05-09-721-832-1 19 41.5 60.1 4176 4 05-09-722-1832-1 20 41.5 60.1 4176 4 05-09-73-168-1 21 41 59-4 4164 1 05-09-85-88-82-3 40 58-0 405-08-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-
14 12 60.5 9957 4 03.08 259-451-1 15 41.5 60.1 4176 4 03.08.259-451-1 17 41.5 60.1 4176 4 08-09-721-1832-1 18 41.5 60.1 4176 4 08-09-721-1832-1 19 41.5 60.1 4176 4 08-09-721-1832-1 19 41.5 60.1 4176 4 08-09-721-1832-1 19 41.5 60.1 4176 4 08-09-721-1832-1 11 59.4 4 08-0-1946-1 20 40 58.0 2269 4 08-08-78-8-8-8 21 41 89.3 1 08-08-88-82-3 40 58.0 1286 4 08-09-149-476-83 22 40 58.0 2229 4 08-09-183-470 23 40 58.0 2229 4 08-09-183-184-69 24 58.0 2229 4 08-09-184-476-83 25 40 58.0 2229 4 08-09-184-476-83 26 40 58.0 2229 4 08-09-184-476-83 27 40 58.0 2229 4 08-09-18-18-470 28 68.0 2229 4 08-09-28-18-470 29 68.0 2229 4 08-09-28-18-470
14 12 60.9 8957 4 03.08 259-451-1 15 41.5 60.1 11464 4 03.08.259-451-1 17 41.5 60.1 4176 4 03-09-721.84cA-2 18 41.5 60.1 4176 4 03-09-721.832-1 19 41.5 60.1 4176 4 03-09-721.832-1 19 41.5 60.1 4176 4 03-09-721.832-1 19 41.5 60.1 4176 4 03-09-721.832-1 20 41 59-4 405-09-39-466-1 21 41 59-4 4164 1 03-09-882-3 41 59-4 4164 1 03-09-882-3 40 58-0 1286 4 03-09-149-476 83 22 40 58-0 1286 4 03-09-149-476 83 23 40 58-0 2229 4 03-09-439-313-469 24 58-0 2229 4 03-09-439-313-469 25 40 58-0 2229 4 03-09-4469
14
14 12 60.9 9957 4 08 08 259-451-1 15 41.5 60.1 4176 4 08 08 08.721.84.CA-2 17 41.5 60.1 4176 4 08-09-721.832-1 18 41.5 60.1 4176 4 08-09-721-832-1 19 41.5 60.1 4176 4 08-09-721-832-1 41 59.4 2269 4 08-09-721-832-1 21 41 59.4 2269 4 08-09-88-1 21 41 59.4 4164 1 08-08-188-582-3 22 41 58.0 1269 1 08-08-788-744 66 23 40 58.0 1286 4 08-09-149-476-242 24 58.0 2229 4 08-09-149-476-242 25 40 58.0 2229 4 08-09-149-476-242
14 12 60.9 9957 4 08 08 259.451-1 15 41.5 60.1 4176 4 08 08.259.451-1 17 41.5 60.1 4176 4 08-09-721-139-1 18 41.5 60.1 4176 4 08-09-721-832-1 41 59.4 2269 4 08-09-721-832-1 20 41 59.4 2269 4 08-09-334-645-1 21 41 59.4 2269 4 08-09-334-645-1 22 41 59.4 4164 1 08-08-188-582-3 23 40 58.0 893 1 08-08-798-74-6 24 58.0 893 1 08-08-798-74-6 25 40 58.0 893 1 08-08-798-74-6 26 58.0 108-64-715-3 27 40 58.0 893 1 08-08-798-74-6 28 40 58.0 108-08-798-74-6 29 40 58.0 108-08-798-74-6 20 40 58.0 108-08-798-74-6 20 40 58.0 108-08-798-74-6
14 12 60.9 9957 4 0S 08 259-451-1 15 41.5 60.1 4176 4 0S 08 259-451-1 17 41.5 60.1 4176 4 0S-09-722-139-1 18 41.5 60.1 4176 4 0S-09-721-832-1 19 41.5 60.1 4176 4 0S-09-721-832-1 19 41.5 60.1 4176 4 0S 09-721-832-1 20 41 59-4 0S 09-724-832-1 21 41 59-4 0S 09 243-5608-1 22 41 59-4 4164 1 0S-08-188-582-3 23 40 58-0 893-1 0S-08-188-582-3 24 58-0 893-1 0S-08-734-66
14 12 60.9 9957 4 0S 08 259-451-1 15 41.5 60.1 14164 4 0S 08.721-144.0A-2 17 41.5 60.1 4176 4 0S-09-722-139-1 18 41.5 60.1 4176 4 0S-09-721-832-1 19 41.5 60.1 4176 4 0S-09-721-832-1 19 41.5 60.1 4176 4 0S-09-394-645-1 20 41 59.4 2269 4 0S-09-394-645-1 21 41 59.4 4164 1 0S-08-188-582-3 21 41 59.4 4164 1 0S-08-188-582-3 23 40 58.0 893 1 0S 08 276-452A-66
14 12 60.5 9957 4 0S 08 259-451-1 15 41.5 60.1 4176 4 0S 08.259-451-1 17 41.5 60.1 4176 4 0S-09-722-139-1 18 41.5 60.1 4176 4 0S-09-721-832-1 19 41.5 60.1 4176 4 0S-09-721-832-1 19 41.5 60.1 4176 4 0S-09-394-685-1 20 41 59.4 2269 4 0S-09-394-685-1 21 41 59.4 4164 1 0S-08-88-582-3 41 59.4 4164 1 0S-08-88-582-3
14
14
14
14 12 60.9 9957 4 US 08 259-451-1 S 15 42 60.9 12464 4 US 08-992-84CA-2 S 16 41.5 60.1 4176 4 US-09-722-139-1 S
14 12 60.9 9957 4 US 08 259-451-1 St

us-09-856-070-17.rni

```
APPLICANT: Bandman, Olda
APPLICANT: An-Young, Janiee
APPLICANT: Hillman, Jenniler L.
TITLE OF INVENTION: NOVEL HUMAN GUANYLATE BINDING PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                      80595
                                                                                                 APPLICANT: Cancilla, Michael R.
TITLE OF INVENTION: A NOVEL NUCLEIC ACID MOLECULE
FILE REFERENCE: Davies Col
                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US U9-856-070-17 (1-14) x US 09-078-294-3 (1-80595)
                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GluArgGluLysGluClaMetMetArgGluLysGlu 12
                                                                                                                                                                                                                                                                                                                                                                                                         Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyre Pharmaceuticals, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    indels:
                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Nucleotide sequence of HC-contig
                                                                                                                                                                                                                                                                                                                                                                                 Length:
                                                                                                                                                            CURRENT APPLICATION NUMBER: 114,704,7078,294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Billings, Lucy J. REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0145 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/736,770 FILING DATE: Filed Herewith PRIOR APPLICATION DATA:
Sequence 3, Application US/09078294 Patent No. 6265211 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 4, Application US/08736770
Patent No. 5871965
                                                                                                                                                                             CURRENT FILING DATE: 1998-05-13
NUMBER OF SEQ ID NOS: 29
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: IELEPHONE: 415-855-0555
                                                         APPLICANT: Choo, Kong-Hong Andy
APPLICANT: Du Sart, Desiree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IBM Compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 2381 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                               83.348
72.468
                                                                                                                                                                                                                                                                                                                                                                                                                          91.678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                       50.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   415 845-4166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Palo Alto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILLING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94304
                                                                                                                                                                                                                                                             LENGTH: 80595
                                                                                                                                                                                                                                                                                                                                                                 Aliqument Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                      US 09 078 294 - 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US 08 7 16 770-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET:
                                                                                                                                                                                                                                            SEC ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ouery Match:
                                                                                                                                                                                                                                                                                                                                                                                    Prod. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 3
```

```
GENERAL INFORMATION:
APPLICANT: Gudkov, Andrei
APPLICANT: Gudkov, 1qor B.
TITLE OF INVENTION: Genes And Genetic Elements Associated
TITLE OF INVENTION: With Sensitivity To Chemotherapeutic Drugs
                                                                                                                                                                                                                                                                                    1 GluArqGluLysGluGlnMetMetArqGluLysGluGluLeu 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                 Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative:
Mismatches:
                                                                                                                                                                    Mismatches:
                                                                                                                                                                                                                                 US-09-856-070-17 (1-14) x US-08-736-770-4 (1-2381)
                                                                                                                                    Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches:
                                                                                                                                                                                    Indels:
                                                                                                                 Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indets:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Allegretti & Witcoff, Ltd.
STREET: 75 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: USZÜBZABU,552
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/033,086
FILING DATE: 09 MAR 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REGISTRATION NUMBER: 33,923
REFERENCE/DOCKET NUMBER: 93,354
                                                                                                                                                                                                                                                                                                                                                                  Sequence 16, Application 05/08480552 Patent No. 5665550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 09 MAR 1993 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   617/345-9100
                                                                                                                                               85.718
57.148
66.678
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       250 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    78.578
64.298
62.328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    617/345-9111
                                                                                                                                 46.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        43.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5.4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDNA
                                                  Consensus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Linear
                                                                                                                                                                  Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
MOLECULE TYPE: CI
IMMEDIATE SOURCE:
LIBRARY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS:
                                                                                                                                                 Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HYPOTHETICAL:
                                                                                                 Aliqument Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Aliqnment Scores:
                                                                                                                                                                                                                                                                                                                                 RESULT 4
US-08-480-552-16
                                                              US-08-736-770-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE:
                                                  CLONE:
                                                                                                                                                                                  Query Match:
                                                                                                                     ..
ON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.:
                                                                                                                     Prod.
```

```
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score:
                                                                                                                                                                                                     APPLICANT: Gudkov, Andrel
APPLICANT: Goodinson, 1908 B.
TITLE OF INVENTION: Genes And Genetic Elements Associated
TITLE OF INVENTION: With Sensitivity To Chemotherapourie brugs
                                                                 1 GluargGlutysGluGlnMetMetArgGlutysGluGluteu 14
                                    1 GluargGluLysGluGloMo+MotargGluJysGluGluLeu 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-856-070-17 (1-14) x HS-98-929-208-16 (1 250)
US-09-856-070-17 (1-14) x 40-08 480-552 16 (1 250)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Allegretti & Witcoff, Ltd
STREET: 75 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HOZ '575/KOZSII
                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: 14M PC compatible
OPERATING SYSTEM: PC:DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 16, Application expensis;
Patent No. 6284648
GENERI INFORMATION:
APPLIGNI: Gudkov, Andrei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/480,552
                                                                                                                                                 16. Application US/08929208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       33,923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 16:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Keown, Wayne A.
REGISTRATION NUMBER: 33,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             617/345-9100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5.49
43.00
78.578
64.298
62.328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 250 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              617/345-9111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           single
                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                       Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CDNA
                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: CDNA
HYPOTHETT
                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                           1. S. A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hest Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                    CITY: Boston
SIATE: Massac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS:
                                                                                                                                                                Patent No. 6060244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                          02109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-929-208-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-568-315-16
                                                                                                                               US-08-929-208-16
                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
                                                                                                                                                  Sequence
                                                                                                              RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ςŞ
                                      Š
```

```
TIME OF INVENTION Genes And Proclim Elementa Associated With Sensitivity To Chemotherapeutic Drugs
                                                                                                                                                                                                                                                                                                                                                                        SOPTWARE: Patentin Release #1.9, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION TITLE OF INVENTION: PRODUCTS: 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101 (aNamasamamasakan Anamasaman Anaman Anaman Isci 6 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ' l GluargGluLysGluGlnMetMetargGluLysGluGluLeu 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative:
                                                                                                                  ADDRESSEE: Allequetti s Witcoff, Ltd. STREET: 75 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-856-070-17 (1-14) x US-09-568-315-16 (1-250)
                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/09/568,315
FILING DATE: 09-May-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERALING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: Keown, Wayne A.
REGISTRATION NUMBER: 33,923
REFERENCE/DOCKET NUMBER: 93,354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE DESCRIPTION: SEQ ID NO: 16: US-09-568-315-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/480,552
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILLING DATE: <Unknown>
APPLICATION NUMBER: 08/929,208
FILLING DATE: 09-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CUPPENT APPLICATION NUMBER: US/09/385,982
CURRENT FILING DATE: 1990-08-30
EARLIER APPLICATION NUMBER: 09/328,111
EARLIER FILING DATE: 1999-06-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EARLIER APPLICATION NUMBER: 60,717,393
EARLIER FILLING DAIE: 1999-01-27
EARLIER APPLICATION NUMBER: 60,098,639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . Sequence 309, Application US/09385982
. Patent No. 6262334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: ENDEGE, WILSON O., ET AL
                                                                                                                                                                                                                                                                                                  Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: 617/345-9100
TELEFAX: 617/345-9111
Roninson, Igor B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 250 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS: single
                                                                                                                                                                                             SIATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 16:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EARLIER FILING DATE: 1998-08-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: CCDNA-260XX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TOPOLOGY: linear
MOLECULE TYPE: cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78.578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               64.298
62.328
                                                                      NUMBER OF SECUPINCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              43.00
                                                                                                                                                                                                                       U.S.A.
                                                                                                                                                                   CITY: Boston
                                                                                                                                                                                                                                                                                                  MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HYPOTHETICAL: NO
                                                                                                                                                                                                                                            02109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity:
                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-385-982-309
```

```
TITLE OF INVENTION: MALARIA RECOMBINANT POXVIRUS VACCINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           266 GAGAGAGAGGAGGGIATCTTAGAGGAAGATGAAGAATC 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 GluArqGluLysGluGlnMetMetArqGluLysGluGluLeu 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DAIS: 105/08/257,073 FILLING DAIE: 09-JUN-1994
                                                                                                                                                                                                                                                                                                         Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                         US UY 856 070 17 (1 14) x CC 09 385 582 309 (1 649)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Curtis, Morris & Safford, P.C.
                                                                                                                                                                                                                                                                  Longth:
Matches:
                 SOFTWARE: FastSED for Windows Version 3.0 SEQ ID No \, 609 \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Frommer, William S.
REGISTRATION NUMBER: 25,506
REFERENCE/DOYKET NUMBER: 454 810-2570
IELECOMMONICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 530 Filth Avenue, 25th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/672,183
FILLING DATE: 20-BAR 1991
ALIORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UNITED STATES OF AMERICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 08/075,783 FILING DATE: 11-JUN 1993 PRIOR APPLICATION DAIA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 07/852,305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC COMPALIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                              : LOCATION: (1)...(649)
; OTHER INFORMATION: n - A,T,C or G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 4, Application US/08257073
Patent No. 5766597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Paoletti, Enzo
APPLICANT: de Taisne, Charles
APPLICANT: Tine, John A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (212) 840: 333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 2223 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : (212) 840 0712
425066 CURTMS
                                                                                                                                                                                                                                                                                                         92.86%
50.00%
62.32%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       143
                                                                                                                                                                                                                                                                  16.5
43.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SPOTENCE CHAPACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 424
PRIOR APPLICATION DATA:
NUMBER OF SEC TO NOS: 544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 1. CORRESPONDENCE ADDRESS:
                                                                                                                                           NAME/KEY: misc_feature
                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: New York
                                                                                                                                                                                                                                                                                                                              Best Loral Similarity:
                                                                                                                                                                                                                                                                                                           Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: UR
                                                                                                                                                                                                                                               Aliqument Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE:
                                                              LENGTH: 649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US 08 257-073-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX
                                                                               TYPE: DNA
                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                               Query Match:
                                                                                                                                                                                                                                                                  Prod. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 8
```

```
TILLE OF INVENTION: Trichohyalin and Transqlutaminase-3 and TILLE OF INVENTION: Mehods of Using Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEE: Knobbe, Martens, Olson & Bear
: 620 Newport Center Drive, Sixteenth Floor
Newport Beach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: Patentin Polease #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/056,200
                                                                                                                                                                                                                                                                                                 Conservative:
Mismatches:
                                                                                                                                                                                                                                                                1 GluArgGluLysGluGlnMetMetArgGluLysGluGlu 14
                                                                                                                                                                                                                          US-09-856-070-17 (1-14) x US-08-257-073-4 (1 2223)
                                                                                                                Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATORNEY/AGENT INFORMATION:
NAME: Fedfick, Michael F.
HEGISTRATION UNMERS: 36,799
REFERENCE/COCKEI NUMBER: NIH054.001A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (714) 760-0404
TELEFRAX: (714) 760-0404
TELEFRAX: (714) 760-0502
INFORMATION FOR SEQ ID NO: 93:
SEQUENCE CHARACTERISTICS:
                                                                                              Length:
                                                                                                                                                                     Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                        Sequence 33, Application Us/UBUS6200
Patent No. 5616500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     E: Floppy disk
IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Steinert, Peter
APPLICANT: Lee, Seung-Chul
APPLICANT: Kim, In-Gyu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Chung, Soo-Il
APPLICANT: Park, Sang-Chul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               30-APR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9551 base pairs
                                                                                                                              84.628
61.54%
62.328
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1645..2511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2512..8070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1507..1644
                   TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: intron
                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLICAL:
MOLECULE TYPE: CDF
                                                                                                                                                   Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME, KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ANTI-SENSE: NO
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE:
                                                                                                                              Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             92660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              O
A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                            US-08-056-200-93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; I.OCATION:
US-08-056-200-93
                                     US-08-257-073-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY:
                                                                                                                                                                   Query Match:
                                                                                            Pred. No.:
                                                                                                                                                                                                                                                                                                                                         RESULT 9
                                                                                                                                                                                                                                                                  ò
```

```
APPLICANT: Steinert, Peter M.
APPLICANT: Lee, Seung Chul
APPLICANT: Lee, Seung Chul
APPLICANT: Kim, In-694
APPLICANT: Chung, Sco-11
APPLICANT: Park, Saug-Chui
TITLE OF INVENTION: Trichohyalin and Transglutaminase-3 and
TITLE OF INVENTION: Mehods of Using Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SSEE: Knobbe, Martens, Olson & Bear
F: 620 Newport Center Drive, Sixteenth Floor
Newport Beach
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER FRADABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
COMPUTER: SYSTEM: P^-D-S/MS-D-S
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                      Conservative:
Mismatches:
Indels:
                                                                                                                                                      US-09-856-070-17 (1-14) x US-08-056-200-93 (1-9551)
                                                                                                                                                                                                                                    Db. 6262 GGGGAGGAGGAGGCCCCCCCAGGAAGGGAGGAGAA
                                                                                                                                                                                            2 ArgGlutysCluGlnMetMetArgCluTysCluGlu 13
                  Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME. FEGTICK, Michael F.
REGISTRATION NUMBER: 36,799
REFERENCE/DOCKET NUMBER: NIH054.001A
TELECOMMUNICATION INFORMATION:
TELEBRONE: (714) 760-0404
TELERAX: (714) 760-9502
INFORMATION FOR SEQ ID NO: 93:
                                                                                                                     Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/800,644
FILING DATE: 14-FEB-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA
APPLICATION UNMBER: US 08/056,200
FILING DATE: 30-ARF-1993
ATTORNBY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                    Sequence 93, Application US/ÜBBÜÜ644
Patent No. 5958752
GENERAL INFORMATION:
                                                  100 00%
58.33%
62.32%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 9551 base pairs
                                   43 00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2512..8070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1507..1644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1645 . . 2511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME/KEY: intron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U.S.A.
ZIP: 92660
                                              Percent Similarity:
Hest Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HYPOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ANTI-SENSE: NO FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CA
Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY ·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LOCALLON:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCATION:
                                                                                                                                                                                                                                                                                               US-08-800-644-93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-800-644-93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET:
CITY: N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                              RESULT 10
                                     Score
                                                                                                                                                                                                õ
```

```
L N 0 0 0
                                                                                                                                                                                                                                                                                                                                          APPLICANT: Tam, Robert C. TITLE OF INTENTIONS FOR TITLE OF INVENTION. METHODS AND COMPOSITIONS FOR TITLE OF INVENTION. PEGGLATION OF CD28 EXPRESSION NUMBER OF SEQUENCES: 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GluargGluTysGluGlnMetMetArgGluTysGluGlu 13
                                                 Conservative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-856-070-17 (1-14) x US-U8-529-8788-37 (1-661)
                                                                                                                                           US-09-856-070-17 (1-14) x HS-08-800-644-93 (1-9551)
                                                                                                                                                                                                              UD LEGE COPPACIONATION OF CONTRACTOR OF A CEST
                                                                  Mismatches:
                                                                                                                                                                            2 ArgGluigsGluGinMctMetArgGluigsGluGlu 13
               Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels:
                                                                                       indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
                                                                                                         Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UMHER: US/ÜB/529,878В
13-SEP-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER TEACHER FORM
COMPUTER TEACHER
COMPUTER IBM PC compatible
COMPUTER IBM PC compatible
COMPUTER IBM PC compatible
COMPUTER SYSTEM: PC-LOS/MS-DOS
SOFTWARE: WORDFREE 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/UB/529, 878B
FILING DATE: 13-SEP-1995
CLASSIFICATION: 424
ATTORREF/AGENT INFORMATION:
NAME: Fish, ROBERT D.
REGISTRATION NUMBER: 33,880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      213/003
                                                                                                                                                                                                                                                                                       ; Sequence 37, Application US/08529878B
; Patent No. 5932556
                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: Crockett & Fish
STREET: 3000 S. Augusta Court
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: 714-525 3433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: DNA (genomic)
               365
43,00
180 00%
58.33%
62.32%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             25.2
42.00
84.628
61.548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFHONE: 714-525 343
TELEFAX: 714-525-3303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SHOT ID NOT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                 Percent Similarity:
Best Local Similarity:
Query Match.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          La Habra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                      US-08-4-874-81/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              90631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-259-451-18/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-529-878B-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Aliqnment Scores:
Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEX:
               Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
```

```
Sequence 15, Application US/08259451
                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: HILLY LINRA COMPOSITIONS
TITLE OF INVENTION: and Assays for Detecting HTLV Infection
NUMBER OF SEQUENCES: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-856-070-17 (1-14) x US-08 259 451-18 (1-2542)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 ArgSlutysGluGlnMetMetArgGluLysGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Diskette, 4.5 inch, 1.44 mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 31.912
REFERENCE/DOCKET NUMBER: 5381.US.PT
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM: MS DOS
SOFTWARE: WOTDFOFFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/OR/259.47;
FILING DATE: 20-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 08/086,415
FILING DATE: 01-JUL-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                       3: Abbott Laboratories
one Abbott Park Road
                                                                                                     Rosenblatt Toseph D
Chen, Irvin S. Y.
Colde, David W.
                                                   Lee, Helen H.
Swanson, Priscilla A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 2542 base pairs
TYPE: nucleic acid
STRANDEDNESS: single stranded
 Sequence 18, Application US,08259451
                                                                                                                                                          Robertson, Eugene F.
Stephens, John E.
                                                                                                                                                                                                               Buylendorp, Mark II.
                                                                                                                                                                                                                                                                 Peterson, Bryan
Edwards, Michelle
                                                                                      Idler, Kenneth B.
Rosenblatt Toseph
                                                                                                                                                                                                                              Johnson, Joan E.
Motley, Cheryl F.
                                                                                                                                                                                                                                                                                                    Guidinger, Peqqy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (708) 937-6365
                                                                                                                                                                                             Chan, Emerson W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (708) 938-2523
INFORMATION FOR SEQ ID NO: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Daniel W. Collins
                                                                                                                                                                                                                                                                                                                   Tate, Cynthia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         83,43%
66,678
60,87%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          42.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 436
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                          Abbott, Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hlinois
                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity:
Overy Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Σ
Υ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             USA
                  Patent No. 6406841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
US 08-259-451-16/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aliqument Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US 08 259-451-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                                                                                       APPLICANT -
                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                        APPLICANT:
                                                                    APPLICANT:
                                                                                                                                         APPLICANT:
                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                             APPLICANT.
                                                                                                                                                                                                                                                                   APPLICANT
                                                                                                                                                                                                                                                                                                APPLICANT
                                                                                                                                                                                                                                                                                                                     APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                          STREET:
                                                                                                                                                                                                                                                                                  APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No.:
```

```
APPLICANT: Tale, Cynthia
TITLE OF INVENTION: HTLV-IINRA Compositions
TITLE OF INVENTION: and Assays for Detecting HTLV Infection
NUMBER OF SEQUENCES: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HS 09 R56-070-17 (1-14) x HS-08-259-451-16 (1-3100)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 ArgGluLysCluGlnMetMetArgGluLysGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 20-JUN-1994
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,415
FILING DATE: 01-JUL-1993
ATTOPNEY/AGENT INFOFMATION:
NAME: Daniel W. Collins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 5381.US.PT
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Abbott Laboratories STREET: One Abbott Park Road
                                                                         Idler, Kenneth B.
Posenblaff, Toseph D.
Chen, Irvin S. Y.
Golde, David W.
                                      Lee, Helen H.
Swanson, Priscilla A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single stranded
                                                                                                                                                 Robertson, Eugene F.
Stephens, John E.
                                                                                                                                                                                                         Buytendorp, Mark H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 31,912
                                                                                                                                                                                                                                                              Peterson, Bryan
Edwards, Michelle
                                                                                                                                                                                                                         Johnson, Joan E.
Motley, Cheryl T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: 1BM OFFICE OFFICE SOFTWARE: WORDPORTFORE 5.1 CURRENT APPLICATION DATA:
AFFILTALIA NUMBER: 15,556,767
                                                                                                                                                                                                                                                                                                     Guidinger, Peagy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (708) 937-6365
                                                                                                                                                                                      Chan, Emerson W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3100 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (708) 938-2623
INFORMATION FOR SEQ ID NO: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  83.33$
66.67$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60.87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                CIIY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: Illinois
COUNTRY: USA
Patent No. 6406841
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       60064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Aliqument Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14
US-08-259-451-1/c
                                      APPLICANT:
APPLICANT:
                                                                                                                APPLICANT:
                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PACCE
                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match:
```

```
TITLE OF INVENTION: HTLV-11NRA Compositions
TITLE OF INVENTION: and Assays for Detecting HTLV Infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-856-070-17 (1-14) x US-08-259-451-1 (1-8957)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 ArgGluLysGluGlnMetMetArgGluLysGluGlu 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Diskette, 3 5 inch, 1 44 mb
MEDIUM TYPE: storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 31,912
REPERENCE/DOCKET NUMBER: 5381.US.P1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 08/086,415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08/08/259,451
                                                       APPLICANT: Lee, Helen H.
APPLICANT: Swanson, Priscilla A.
APPLICANT: Idler, Kenneth B.
APPLICANT: Rosenblatt, Joseph D.
APPLICANT: Ghen, Irvin S. Y.
APPLICANT: Golde, David W.
APPLICANT: Pobertson, Eugene F.
APPLICANT: Stephens, John E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSE: Abbott Laboratories
STREET: One Abbott Park Koad
CITY: Abbott Park
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IYPE: nucleic acid
STRANDEDNESS: single stranded
TOPOLOGY ;inear
                                                                                                                                                                                                                Chan, Emerson W.
Buytchdorp, Mark H.
Johnson, Joan E.
Motley, Cheryl T.
Peterson, Bryan
Edwards, Michelle
Sequence 1, Application US/08259451
Patent No. 6406841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM OPERATING SYSTEM: MS-DOS SOFTWARE: WordPerfect 5.1 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (708) 937-6365
TELEFAX: (708) 938-2623
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                        Guidinger, Peggy
Tate, Cynthia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 01-JUL-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGIH: 8957 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Daniel W. Collins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         42.00
83.338
66.678
60.878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 436
PRIOR APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hest Local Similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-991-840A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-08-259-451-1
                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY
                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 15
```

```
TITLE OF INVENTION: Live Altenuated Virus Vaccines for Eastern Equine Encephali
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: December 16, 1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION DATA:
FILING DATE: May 20, 1997
APPLICATION NUMBER: Provisional Application 60,047162,
APPLICATION NUMBER: Provisional Application 60,0653,652
FILING DATE: July 24, 1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Charles H. Harris
REGISTRATION NUMBER: 34,616
PEFFEMENTATORET NIMBER: 003/058/SAP RIID 96-01
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-U9-855-070-17 (1-14) x US-08-991-840A-2 (1-11464)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7815 AAAGAAAAAGAAGTTAGTAAAGAAAAAGAAGAA 7850
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 ArgeloLysGluGloMetMetArgGloLysGluGlu 13 :::|||||||||||||
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scutch completed: January 16, 2603, 21.41.21
Job time : 60 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US/08/991,840A
                                                                                                                                                                                                                                                                                                                                                              COUNTRY: USA
ZIP: 2170-5012
COMFUTER READALE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh 7 5
SOFTWARP: MICTOSOFF WORD 6 7
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/991,840A
Sequence 2, Application US/08991840A Patent No. 6261570
                                                                                                                                                                                                                                                                                            STREET: USA MRMC - MRMC-JA
CITY: FORT DETRICK, FREDERICK
STATE: MARYLAND
                                                                                                                                                                                                                                                                          Charles H. Harris
                                           GENERAL INFORMATION:
APPLICANT: Michael D. Parker
APPLICANT: Jonathan F. Smith
APPLICANT: Bruce Crise
APPLICANT: Mark Steve Oberste
APPLICANT: Shannon Schmura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (301) 619-2065
TELEFAX: (301) 619-5034
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 11464 base pairs
TYPE: Nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          83.33%
65.57%
60.87%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        42 OU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS:
                                                                                                                                                                                                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-991-840A-2
```

Matéhes. Conservative: Mismatches:

indels:

Length: